

1967

Aligning Instructions

For all models mentioned below the repair manual of HF 45 U / Mandello c/U / Locarno c/U and KS 610 U, which has been published for the manufacturing period of 1965, is valid.

AM-IF Alignment 460 kc

Band Position of Variable Capacitor	Coupling of Signal Generator	Alignment	Sensitivity	Remarks
BC Pointer at 1 Mc	G1 EAF 801	(III) and (IV) max.	1.32 mV	Align with alternate damping (0.1 to 0.5 mH in series). IF Selectivity 1 : 100. IF Bandwidth 4 kc.
	G1 ECH 81	(I) and (II) max.	18 µV	
BC, tuned in	to antenna jack	(V) inner min.	"	Blocking ratio 1 : 25

AM-Oscillator and Input Circuit Alignment

Band Frequency Pointer Position	Oscillator	Input Circuit	Sensitivity µV	Image Ratio 1 : 1	Oscillation Current µA	Remarks
BC	① max.	② inner	8 ...	550	570 ...	Final pointer pos. "1" of 510 kc. Alignment Sequence: BC-Oscill. BC input circuit SW I Osc. SW I input circuit SW II Osc. SW II input circuit Align the BC input circuit. Max. sensitivity: 1 Mc at G1 ECH 81 : 21.5 µV
	1450 kc	② max.	... 7 ...	350	... 680 ...	
SW I	2.5 Mc	③ max.	9 ...	45	520 ...	BC-Oscill. BC input circuit SW I Osc. SW I input circuit SW II Osc. SW II input circuit Align the BC input circuit. Max. sensitivity: 1 Mc at G1 ECH 81 : 21.5 µV
	5.5 Mc	③ max.	... 10 ...	25	... 620 ...	
SW II	8 Mc	④ max.	15 ...	15	... 626 ...	BC-Oscill. BC input circuit SW I Osc. SW I input circuit SW II Osc. SW II input circuit Align the BC input circuit. Max. sensitivity: 1 Mc at G1 ECH 81 : 21.5 µV
	15 Mc	④ max.	... 16 ...	9	650 ...	
			... 18	8	... 700 ...	
			7	7	... 700	

FM-IF Alignment 10.7 Mc

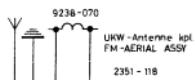
Modulation of Signal Generator	Coupling of Generator	Alignment	Indication	Sensitivity	Remarks
FM	G1 EAF 801	(a) max.	Outputmeter	11 mV	Align with the greatest deviation (± 75 kc). Dissymmetry alignment with 100 mV IF of G1 EAF 801. Adjust the core R 2 (3.0 Ω) in filter II with an IF voltage of 300–400 mV to max. AM-suppression (only possible with wobbling oscilloscope). R 2 is to be found above the core (b).
		(b) max.	Outputmeter		
FM	G1 ECH 81	(c) max.	Outputmeter	170 µV	Align with the greatest deviation (± 75 kc). Dissymmetry alignment with 100 mV IF of G1 ECH 81. Adjust the core R 2 (3.0 Ω) in filter II with an IF voltage of 300–400 mV to max. AM-suppression (only possible with wobbling oscilloscope). R 2 is to be found above the core (b).
		(d) max.			
	wire loop to ECC 85 via 0.5 pF to point (x)	(e) inner max.	Outputmeter		
		(f) max.			

FM-Oscillator, Intermediate- and Antenna Circuit Alignment

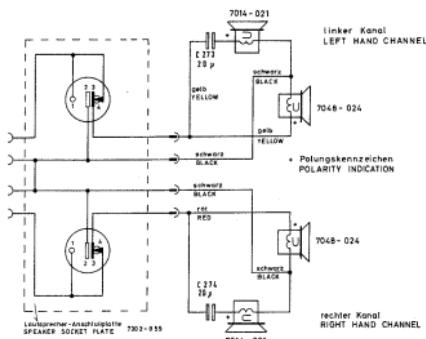
Signal Generator Frequency	Oscillator	Intermediate Circuit	Antenna Circuit	Indication	Oscill. Voltage	Sensitivity	Remarks
88 Mc	(A) max.	(B) max.	(E) max. *	Outputmeter	2.4 ... 2.71 =	< 3 kΩ	*) For circuit (E) being very broad, core should be adjusted to a position 2.5 mm below the upper edge of the coil form. Coil F must not be detuned. If already detuned, remove and align it separately to 0.85 µH.
104 Mc	(C) max.	(D) max.					

Hum: L. H. Channel / R. H. Channel, L-Pot. shut 0.5 / 0.6 mV, open 0.8 / 0.8 mV

Loudspeaker Wirings



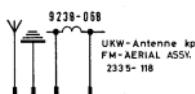
Locarno 1/U



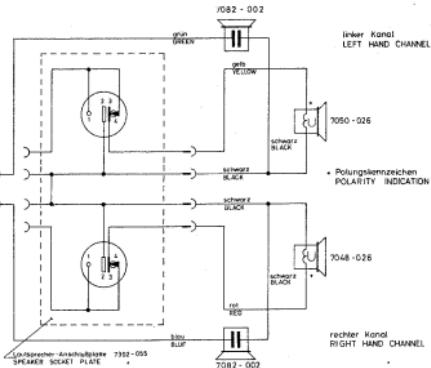
Mandello 1/U



Mandello 1/U



Mandello 1/U

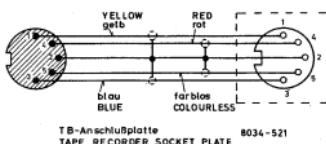


Locarno 1/U

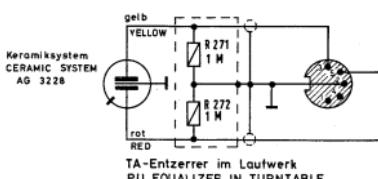


Locarno 1/U

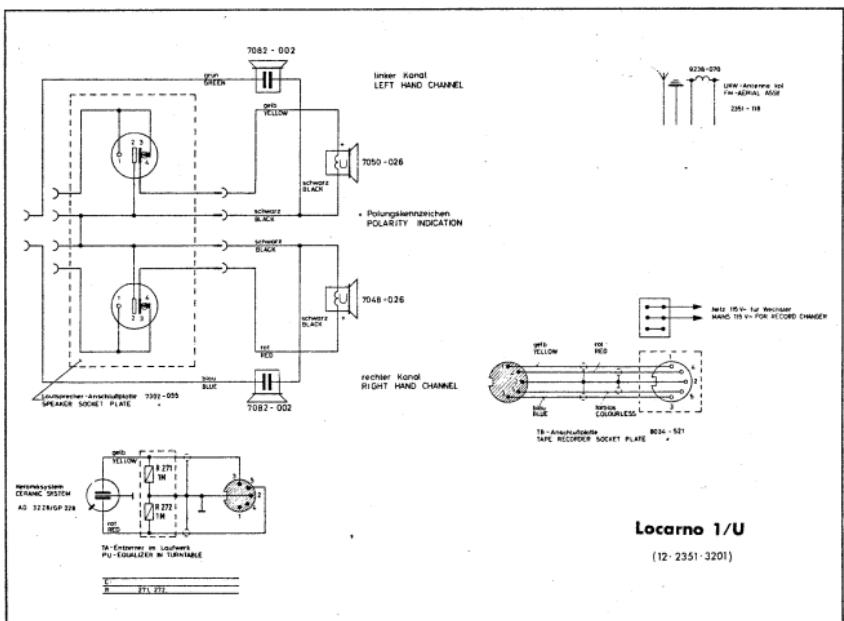
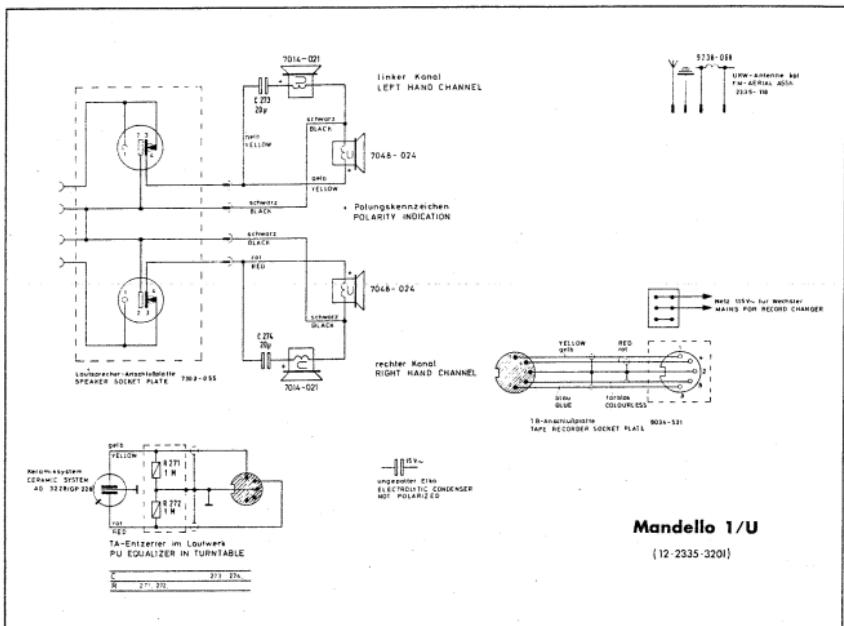
PU-Attenuator in the Changer

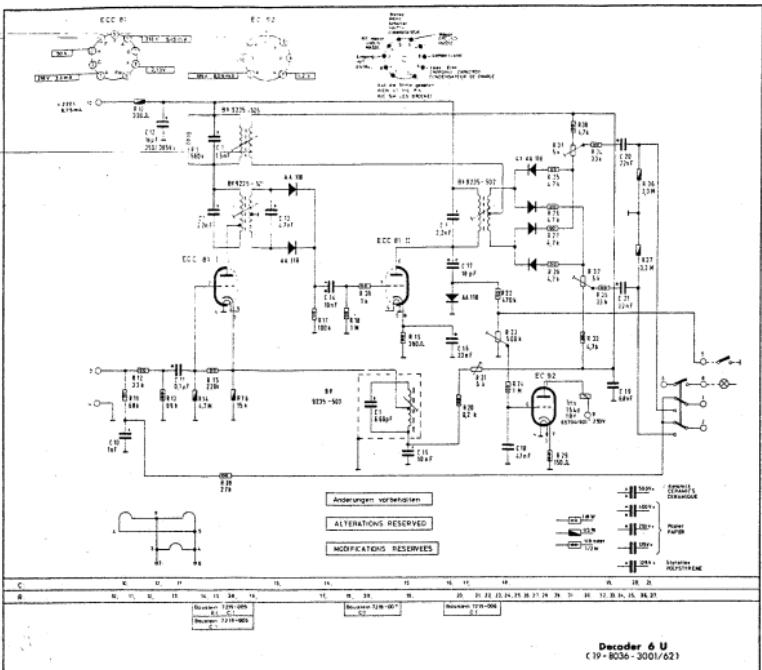


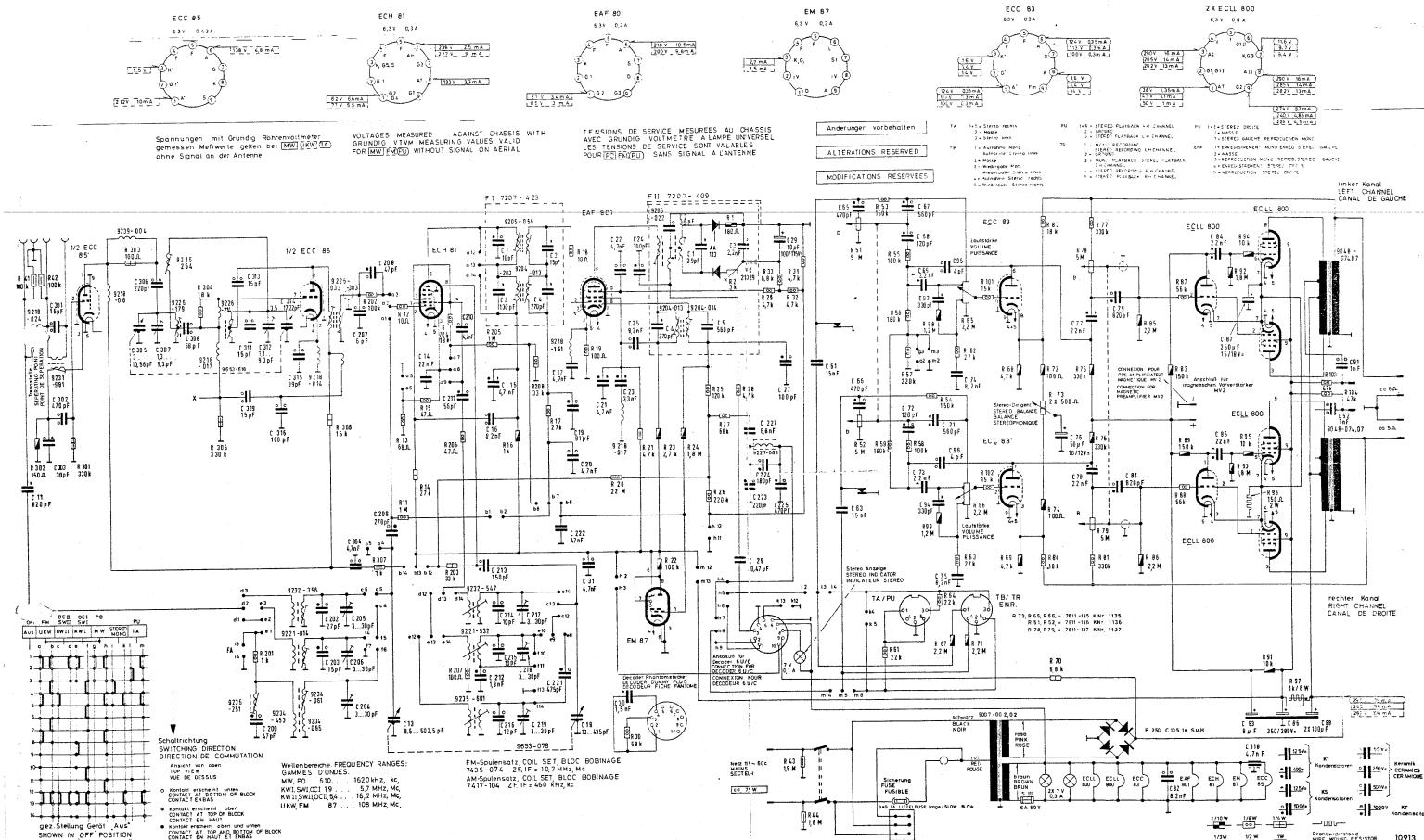
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